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This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A precision dispensing tip for use with precision dispensing apparatus for delivering controlled amounts of viscous fluid to a selected location comprising:

- a) a body having an inlet at one end adapted for connection in fluid communication with precision dispensing apparatus and having an outlet at another end of the body;
- b) a fluid conducting passage in the body for connecting the inlet to the outlet, the passage having a first portion in the shape substantially of a frustum of a right circular cone converging in a direction immediately from the inlet to an intermediate location in the body and a second substantially cylindrical portion of constant diameter extending from the intermediate location to the outlet, the first portion having an axial length extending from the inlet to the intermediate location and the second portion having an axial length extending from the intermediate location to the outlet;
- c) so that the passage conducts fluid from the inlet to the outlet in a continuous and uninterrupted manner and in a manner avoiding introduction of turbulence to fluid flow in the tip; and
- d) wherein the body has a longitudinal axis and the first and second portions extend along the axis

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and wherein the outlet has a diameter such that the diameter of a drop of viscous fluid leaving the outlet is directly proportional to the ratio of the axial length of the second portion to the axial length of the first portion, the axial length of the first portion being at least three times the axial length of the second portion and the inlet having a diameter at least four times the diameter of the outlet.

2. (Original) A dispensing tip according to claim 1, wherein the second portion of the passage has a diameter in a range from about 0.003 inch to about 0.030 inch.

3. (Original) A dispensing tip according to claim 1, wherein the body is of ceramic material.

4. (Original) A dispensing tip according to claim 1, wherein the body is of injection molded ceramic material.

5. (Original) A dispensing tip according to claim 1, wherein the body is of injection molded zirconia ceramic material.

6. (Original) A dispensing tip according to claim 1, further comprising a protective housing.

7. (Original) A dispensing tip according to claim 6, further including a standoff member extending from the housing for contacting a surface to which fluid is to be dispensed for spacing the outlet of the tip from the surface.

8. (Cancelled)

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9. (Currently amended) A precision dispensing tip for use with precision dispensing apparatus for delivering controlled amounts of fluid to a selected location comprising:

- a) a monolithic body of ceramic material having an inlet at one end adapted for connection in fluid communication with precision dispensing apparatus and having an outlet at another end of the body; and
- b) a fluid conducting passage in the body for connecting the inlet to the outlet, the passage being shaped to conduct fluid from the inlet to the outlet in a continuous and uninterrupted manner, said passage having a first portion converging in a direction immediately from the inlet and meeting a second portion of substantially constant cross-section extending toward the outlet, the first portion having a length extending from the inlet to the meeting of the first and second portions and the second portion having a length extending from the meeting of the first and second portions to the outlet, the length of the first portion being at least three times the length of the second portion.

10. (Original) A dispensing tip according to claim 9, wherein the body is of injection molded ceramic material.

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11. (Original) A dispensing tip according to claim 9, wherein the body is of injection molded zirconia ceramic material.

12. (Original) A dispensing tip according to claim 9, wherein the outlet has a diameter in the range from about 0.003 inch to about 0.030 inch.

13. (Withdrawn)

14. (Previously added) A dispensing tip according to claim 9, in combination with a protective housing.

15. (Previously added) A dispensing tip according to claim 14, further including a standoff member extending from the housing for contacting a surface to which fluid is to be dispensed for spacing the outlet of the tip from the surface.

16. (Previously amended) A dispensing tip according to claim 9, wherein the body has a longitudinal axis, the first and second passage portions extending along the axis and wherein the diameter of a drop of fluid leaving the outlet is directly proportional to the ratio of the axial length of the second passage portion to the axial length of the first passage portion.

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